iCON

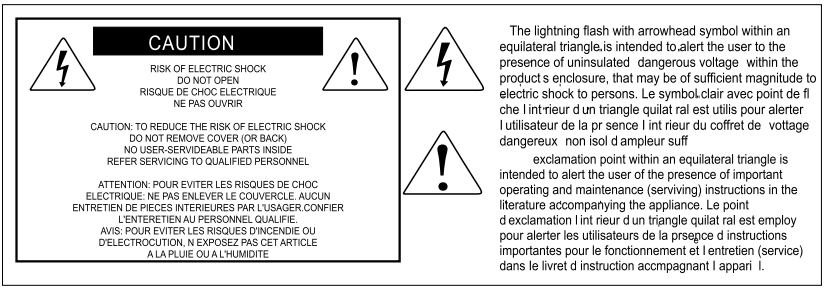
QCon EX

USB-MIDI Controller Station

Expansion unit for Qcon Pro - MIDI/Audio control surface with motorized faders for production

User manual

DER GRÜNE PUNKT CE FC N1630


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
RISQUE DE CHOC ELECTRIQUE
NE PAS OUVRIR
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK
DO NOT REMOVE COVER (OR BACK)
NO USER-SERVIDEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED PERSONNEL
ATTENTION: POUR EVITER LES RISQUES DE CHOC
ELECTRIQUE: NE PAS ENLEVER LE COUVERCLE. AUCUN
ENTRETIEN DE PIECES INTERIEURES PAR L'USAGER. CONFIER
L'ENTERETIEN AU PERSONNEL QUALIFIE.
AVIS: POUR EVITER LES RISQUES D'INCENDIE OU
D'ELECTROCUTION, N EXPOSEZ PAS CET ARTICLE
A LA PLUIE OU A L'HUMIDITE
The lightning flash with arrowhead symbol within an equilateral triangle.is intended to.alert the user to the presence of uninsulated dangerous voltage within the product s enclosure, that may be of sufficient magnitude to electric shock to persons. Le symboLclair avec point de fl che l int·rieur d un triangle quilat ral est utilis pour alerter l utilisateur de la pr sence l int rieur du coffret de vottage dangereux non isol d ampleur suff
exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (serviving) instructions in the literature accompanying the appliance. Le point d exclamation l int rieur d un triangle quilat ral est employ pour alerter les utilisateurs de la prsence d instructions importantes pour le fonctionnement et l entretien (service) dans le livret d instruction accmpagnant l appari l.

Important Safety Instructions

1. Read this manual thoroughly before using this unit.
2. Keep this manual for future reference.
3. Take notice of and comply with all warnings included in the user's manual or indicated on the appliance.
4. Follow all instructions included in this manual.
5. Do not expose this unit to rain or moisture. Avoid having water or other liquids spilled on this unit.
6. When cleaning the cabinet or other parts of this appliance, use only a dry or slightly damp soft cloth.
7. Do not block any ventilation openings or interfere with the proper ventilation of this unit. Install in accordance with the manufacturer's instructions.
8. Do not use or store near any heat sources such as radiators, heat registers, stoves, or other heat-producing appliances.
9. Do not interfere with the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug h as two blades and a third grounding prong. These are designated for your safety. If the provided plug does not fit into your outlet, consult an electrician.
10. Protect the power cord from being walked on or otherwise damaged by items placed on or against them. Particular attention should be given to the plugs, receptacles, and the point where the cord exits the appliance.
11. To avoid the risk of electrical shock, do not touch any exposed wiring while the unit is in operation.
12. Only use attachments/accessories specified by the manufacturer.
13. Unplug this unit and all connected electrical equipment during lightning storms or when left unused a long period of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the appliance has been damaged in any way or fails to operate normally.

WARNING: To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture

Contents

Introduction **1**
What's in the package? **1**

Features **2**

Top Panel Layout **3-5**

Rear Panel Layout **5**

Getting Started
Connecting Your Qcon EX Controller **6-7**

iMap™ Software for Mac OS X **8**

Installing iMap™ Software for Windows **8-9**

iMap™ Qcon EX software panel **10**

Firmware upgrade **10**

Connections **11**

Specifications **12**

Services **13**

Introduction

Thank you for purchasing the ICON Qcon EX Midi/Audio control surface. We sincerely trust this product will provide years of satisfactory service, but if anything is not to your complete satisfaction, we will endeavor to make things right.

In these pages, you'll find a detailed description of the features of the Qcon EX, as well as a guided tour through its front and side panels, step-by-step instructions for its setup and use, and full specifications.

You'll also find a warranty card enclosed - please don't forget to fill it out and mail it so that you can receive online technical support at: www.icon-global.com. And so we can send you updated information about these and other ICON products in the future. As with most electronic devices, we strongly recommend you retain the original packaging. In the unlikely event the product must be returned for servicing, the original packaging (or reasonable equivalent) is required.

With proper care and adequate air circulation, your Qcon EX will operate without any trouble for many years. We recommend that you record your serial number in the space provided below for future reference.

Please write your serial number here for future reference:

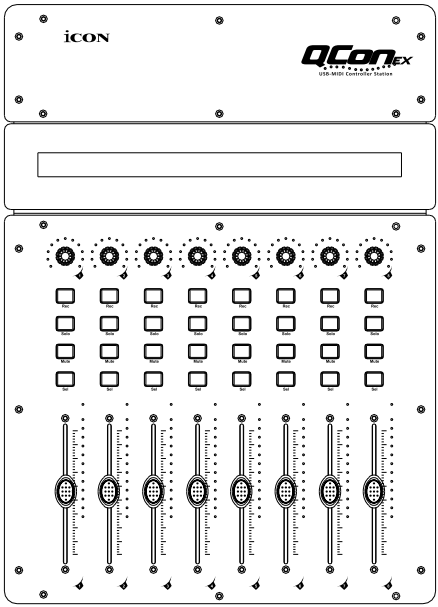
Purchased at:

Date of purchase:

What's in the package?

- Qcon EX USB-MIDI Controller x 1pc.
- Software CD / User' Manual x 1
- Quick Start Guide x 1
- USB2.0 Cable x 1
- AC adaptor x 1pc

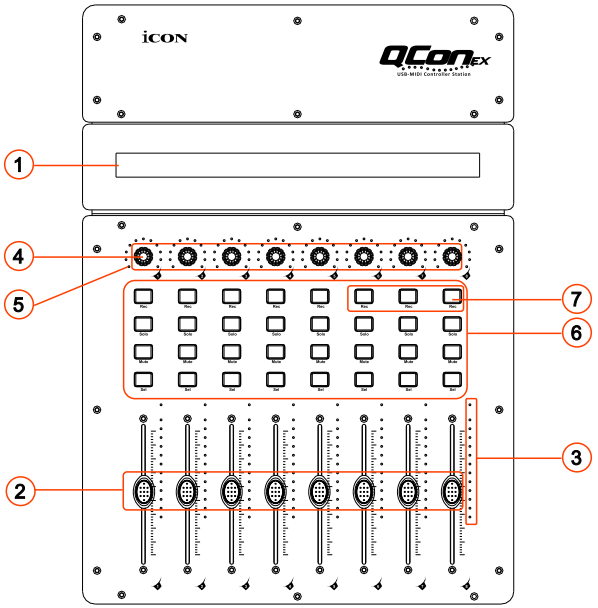
Features



- 8 touch-sensitive motorized channel faders
- 12-segments LED channels level metering
- 8 x dual function encoder knobs (Enter & rotate)
- 11-segments LED surrounding the encoders to indicate the rotating position.
- Large backlit LCD to display channel name, control values etc. for each channel
- Illuminated buttons for each channel including Rec-enable, Solo, Mute, Select and Monitor
- Expandable to 32-channels control surface with 3units of Qcon EX and a Qcon Pro.
- User A & User B RCA connectors for connecting with pedals
- Class-compliant with Windows XP, Vista (32-bit), Windows 7 (32-bit & 64-bit), and Mac OS X (IntelMac)
- USB 2.0 high speed connectivity
- Mackie control build-in for Cubase, Nuendo, Samplitude, Logic Pro and Abelton Live.
- Mackie HUI protocol build-in for Pro Tool.
- User self-define mode (MIDI Learn) for other DAW such as Sonar.
- Firmware upgrade available simply via USB connection and iMap software.
- Robust aluminum and metal casing with Kensington lock port

Top Panel Layout

Note: Function operates slightly difference between DAWs. Please refer to your DAW manual for each function and overlap the provided labeling template according to your current using DAW. The following description is based on the functions that operate in Apple Logic™.



① **LCD backlit display**

The two-line backlit LCD display shows the parameter values as you adjust them and also provides feedback about channel selections, operating modes, and more.

② **Channel faders**

The eight 100mm motorized faders are generally used for controlling the track volume of your DAW. Depending on your DAW, you may use the “Flip” button to switch the function of these faders to change other settings. They are all touch sensitive to allow override automation the moment you touch a fader. Also, they are motorized; they will automatically move to reflect the current level of the selected channels in your DAW application. Any automation recorded in a project will be reflected by the fader positions. Any parameter adjustments made with these faders will be displayed directly above on the LCD display.

③ **Channel level metering**

The 12-led showing the associated channel level.

④ Dual function encoders

The dual functioned encoder acting as a push-button and a rotary control. When an encoder is pressed, it may be used to change modes of operation or to change what appears in the display above the channel strips. When an encoder is rotated, depending on its assigned function, it can be used to adjust a channel's pan, send level, or plug-in parameters.

⑤ Encoder LED

The 11-LED surrounding the encoder lights up to indicate the relative position of the rotation without having to look at your computer.

⑥ Control buttons

Recording channel control buttons section

REC buttons - Activate and deactivate the recording state of the associated channel. The switch will light red when the channel is armed.

SOLO buttons -Turn On and Off the solo state of the associated channel. The switch will light green when the channel solo state is on and other channels will be muted. You could solo multiple channel by pressing SOLO buttons on additional channels.

MUTE buttons - Activate and deactivate the mute state of the associated channel. The switch will light blue when the channel is muted.

SEL buttons -The SEL buttons activate the associated channels in the DAW software in order to perform a specific operation (for example, when adjusting EQ with the ASSIGNABLE ENCODERS, the SEL switch will be used to choose the channel you want to adjust). When a channel is selected, the associated SEL switch's red LED will light up.

⑦ DAW Selector section

Qcon EX has built-in Mackie Control protocols & HUI for different DAW such as Cubase™, Samplitude™, Abelton Live™, Logic Pro™ and ProTool™ By selecting the correct DAW and Mackie control (HUI) protocol, Qcon EX has automatically mapped the major functions and work seamlessly with that DAW.

<< / >> buttons -These arrow buttons are used to scroll through the DAW list. The name of the DAW will display on the LCD.

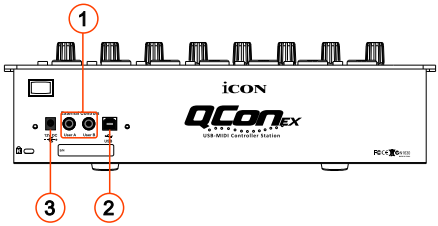
DAW button - Press to enter the DAW selection.

To change your Qcon EX DAW mode, turn off and on the power switch to enter the DAW selection mode. Select your desired DAW from the list with the "<<" / ">>" buttons.

Note: You have to select the "Unit Number" for Qcon EX before you select the DAW.

Tips: DAW button could not be activated if a DAW software is running.
*(**Note:** We will update Qcon EX firmware from time to time to support additional DAW apart from the current existing list. Please check our official website to download and upgrade your Qcon EX firmware).*
***Tips:** Qcon EX will memorize your last selected DAW mode and re-enter the same mode few seconds after it's been switched on. (i.e. DAW mode selection is not needed if last mode is being used.)*

Rear Panel Layout



① **User A / User B RCA connectors**
These RCA connectors are able to connect to foot pedals to activate your selected functions. To set their parameters, select USER A and USER B parameters at Mackie control mode.

② **USB port**
Connect your Qcon EX to your Mac/PC via this USB port.

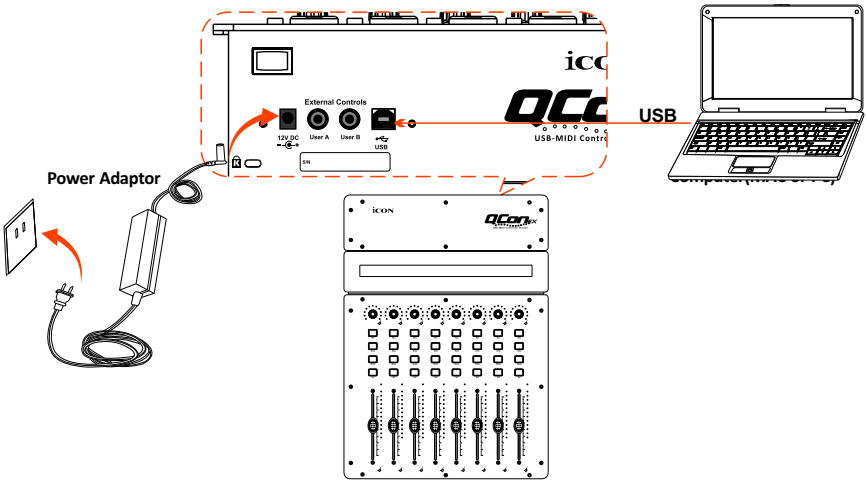
③ **12V/5A power adaptor**
Connect the provided power adaptor here.
(Note: Qcon EX is not able to work without the provided power adaptor connected. The USB bus power is not able to provide sufficient power supply for Qcon EX.)

Getting Started
Connecting Your Qcon EX Controller

① Connect the Qcon EX to your Mac/PC via the USB port.

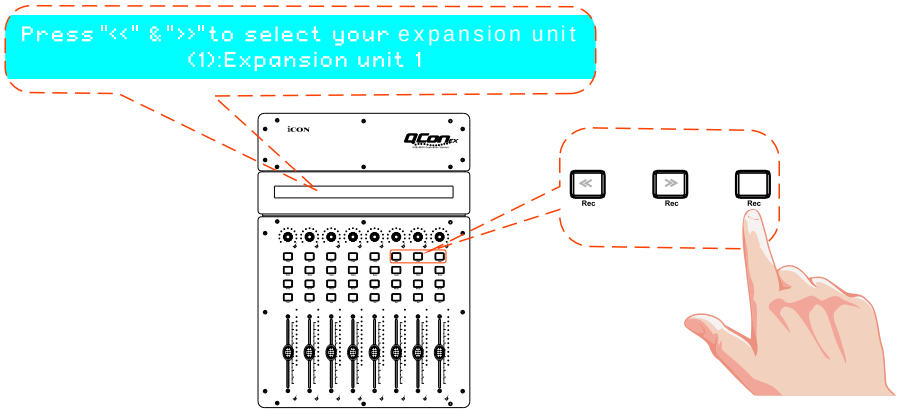
Choose a USB port on your Mac/PC and insert the wide (flat) end of the USB cable. Connect the cable's other end to the Qcon EX. Your Mac/PC should automatically "detect" the new hardware and notify you that it is ready to use.

(Tip: We recommended that you use ICON's CubeHub USB hub, which allows you to connect up to 3 units of Qcon EX, if you are not connecting Qcon EX directly to your computer's USB port)



② Select the "Unit number"

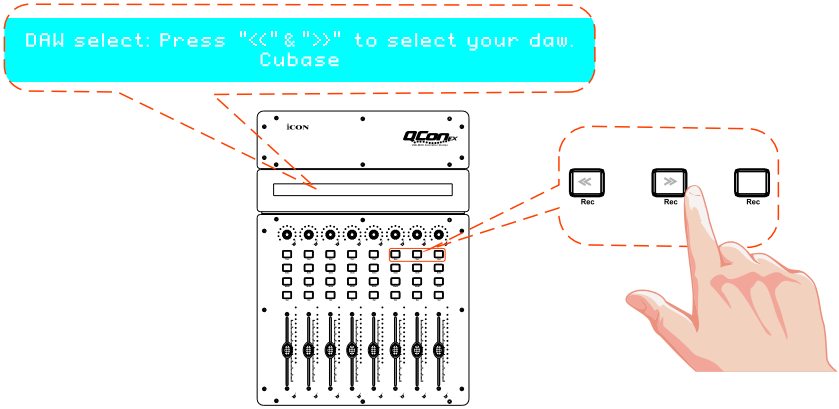
Press <</>> to scroll through the "Unit number 1 to 3" and press the "DAW" button to confirm. You may connect up to a maximum of 3 units of Qcon EX.



③ Select the DAW at Qcon EX

Press <</>> to scroll through the DAW list after pressed the “DAW” button to make the selection.

Tips: Qcon EX will memorize your last selected DAW mode and re-enter the same mode few seconds after it's been switched on. (i.e. DAW mode selection is not needed if last mode is being used.)

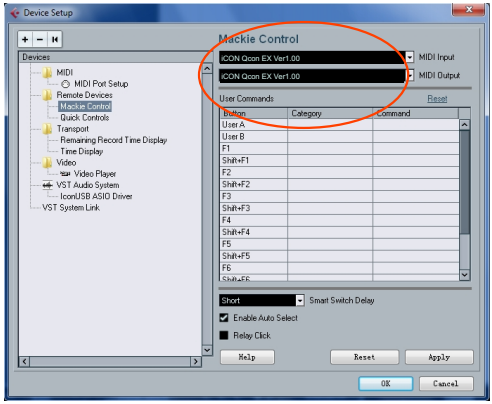


④ Setup your DAW

Activate the ICON Qcon EX controller in your DAW or MIDI software using “MIDI Setup” or “MIDI Devices”.

For Logic™, Cubase™ and Nuendo™, choose Mackie Control/HUI at the “Device List”.

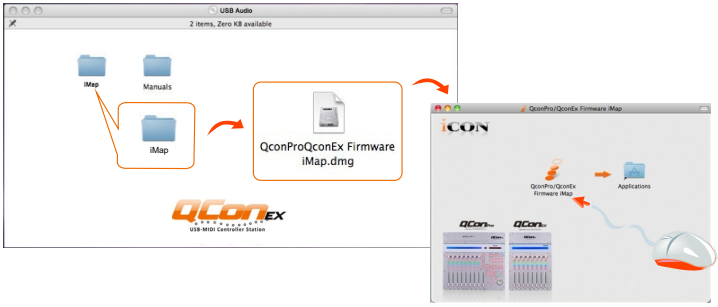
(Note: Every application does this a little different, so refer to your software user manual for the settings.)



iMap™ Software for Mac OS X

Please follow the procedures below step-by-step to launch your iMap™ software to Mac OS X

① **Insert the Utility CD in your CD-Rom and double click "Qcon EX iMap" icon.**



Tips: By "drag and drop" the "Qcon EX iMap" icon into the "Applications" folder, you could create a "iMap" shortcut on your Mac's desktop.

Installing iMap™ Software for Windows

Please follow the procedures below step-by-step to install your iMap™ software.

① **Turn on your PC.**

② **Insert the Utility CD in your CD-Rom**

After you have inserted the CD into your CD-Rom, an installation screen should appear as shown in diagram 1; click "iMap™ installation".

(Note: If the installation screen not appear automatically go to the CD folder and double click on "Setup")

Diagram 1

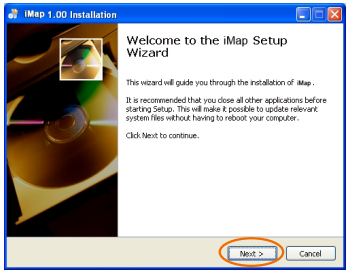

iMap 1.00 installation
Welcome to the iMap Setup Wizard
This wizard will guide you through the installation of iMap.
It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
Click Next to continue.
Next >
Cancel

Diagram 2

③ **Setup Wizard appear**

Setup wizard appears, please click "Next"

④ Choose Install Location

Choose your preferred install location for iMap™ or use the default location and click "Next"

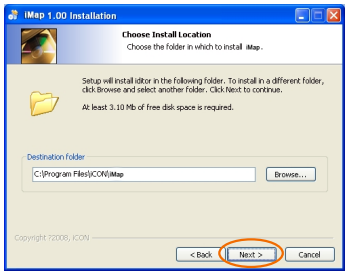

iMap 1.00 Installation
Choose Install Location
Choose the folder in which to install iMap.
Setup will install iditor in the following folder. To install in a different folder, click Browse and select another folder. Click Next to continue.
At least 3.10 Mb of free disk space is required.
Destination Folder
C:\Program Files\ICON\iMap
Browse...
Copyright 72008, ICON
< Back
Next >
Cancel

Diagram 3

⑤ Select shortcut

Select the start menu folder in which you would like to create the iMap™ shortcut. Then click "Next"

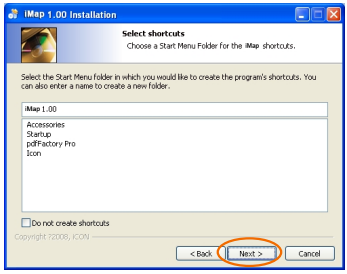

iMap 1.00 Installation
Select shortcuts
Choose a Start Menu Folder for the iMap shortcuts.
Select the Start Menu folder in which you would like to create the program's shortcuts. You can also enter a name to create a new folder.
iMap 1.00
Accessories
Startup
pdfFactory Pro
Icon
Do not create shortcuts
Copyright 72008, ICON
< Back
Next >
Cancel

Diagram 4

⑥ Create a shortcut on your desktop

Please untick the box if you do not want to place a shortcut icon on your desktop for iMap™, otherwise click "Next"

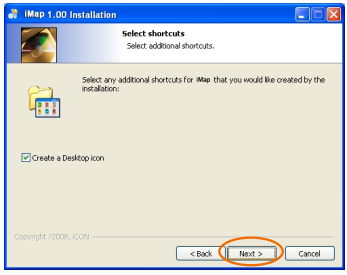

iMap 1.00 Installation
Select shortcuts
Select additional shortcuts.
Select any additional shortcuts for iMap that you would like created by the installation:
Create a Desktop icon
Copyright 72008, ICON
< Back
Next >
Cancel

Diagram 5

⑦ iMap™ started to install

The iMap™ installation has now started, wait for it to finish. Then click "Finish"

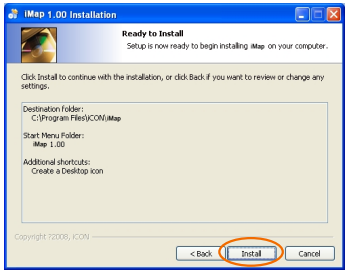

iMap 1.00 Installation
Ready to Install
Setup is now ready to begin installing iMap on your computer.
Click Install to continue with the installation, or click Back if you want to review or change any settings.
Destination folder:
C:\Program Files\ICON\iMap
Start Menu Folder:
iMap 1.00
Additional shortcuts:
Create a Desktop icon
Copyright 72008, ICON
< Back
Install
Cancel

Diagram 6

⑧ Installation finished

Click "Finish" to complete the iMap™ software installation.

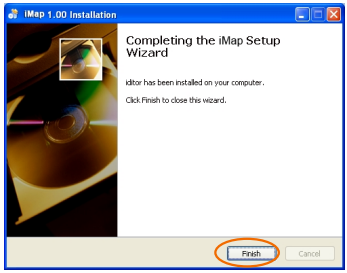
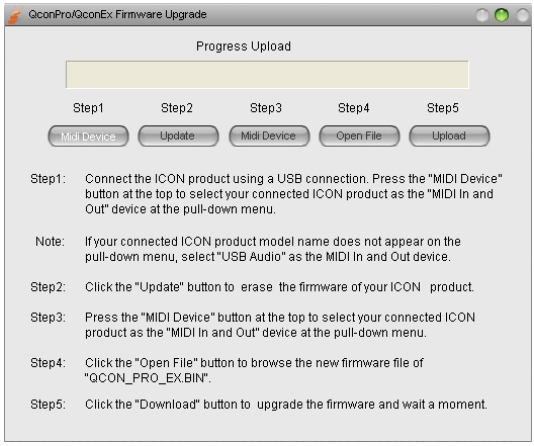


Diagram 7

iMap™ Qcon EX software panel

① **“Firmware Upgrade” button**
Click this button to enter into the firmware upgrade window for Qcon EX.
Please refer to P.10 for the firmware upgrade procedure.

Firmware upgrade


QconPro/QconEx Firmware Upgrade
Progress Upload
Step1
Step2
Step3
Step4
Step5
Midi Device
Update
Midi Device
Open File
Upload
Step1: Connect the ICON product using a USB connection. Press the "MIDI Device" button at the top to select your connected ICON product as the "MIDI In and Out" device at the pull-down menu.
Note: If your connected ICON product model name does not appear on the pull-down menu, select "USB Audio" as the MIDI In and Out device.
Step2: Click the "Update" button to erase the firmware of your ICON product.
Step3: Press the "MIDI Device" button at the top to select your connected ICON product as the "MIDI In and Out" device at the pull-down menu.
Step4: Click the "Open File" button to browse the new firmware file of "QCON_PRO_EX.BIN".
Step5: Click the "Download" button to upgrade the firmware and wait a moment.

Step 1: Connect the ICON product using a USB connection. Press the “MIDI Device” button at the top to select your connected ICON product as the “MIDI In and Out” device at the pull-down menu.

Note: If your connected ICON product model name does not appear on the pull-down menu, select “USB Audio” as the MIDI In and Out device.

Step 2: Click the “Update” button.

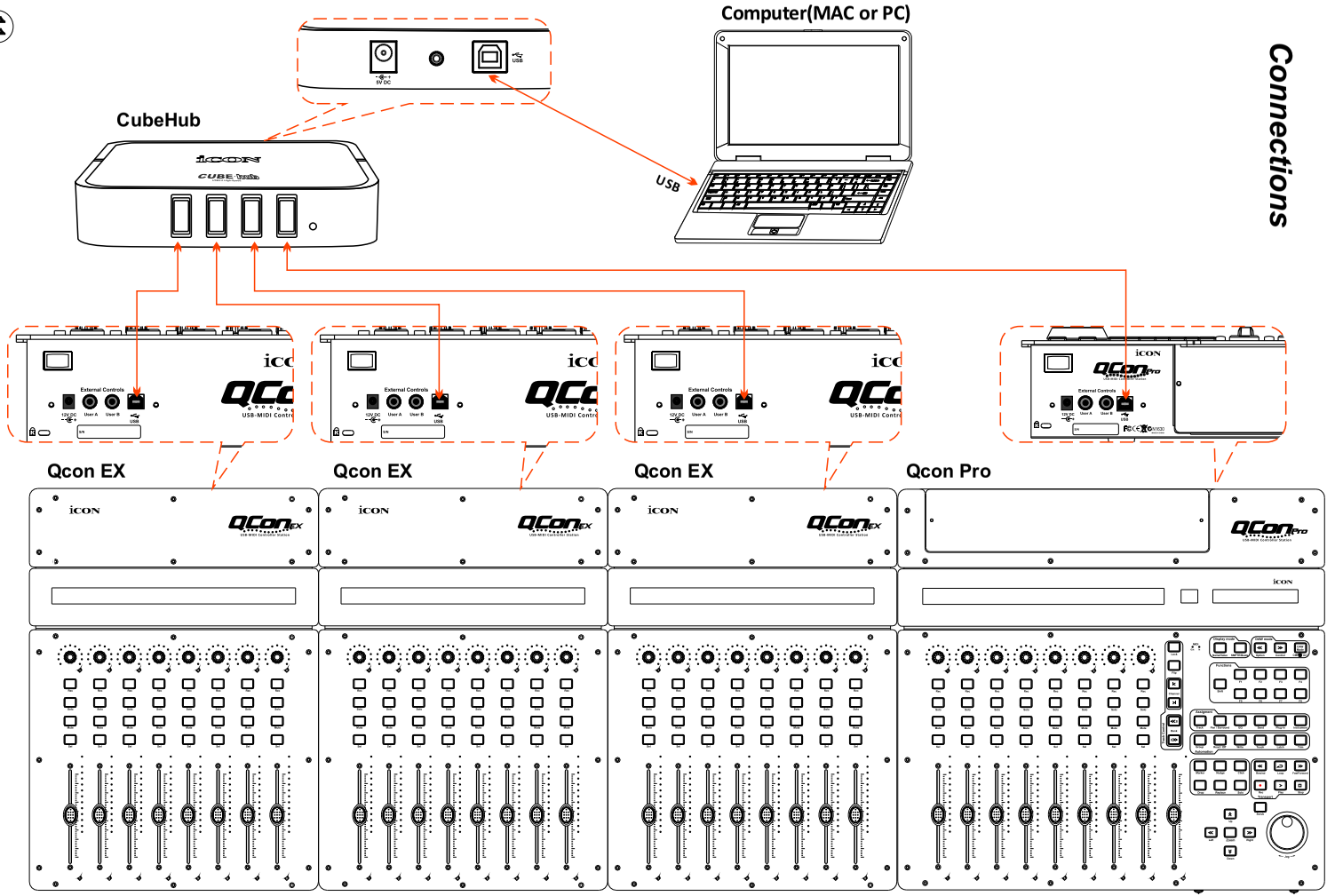
Step 3: Press the “MIDI Device” button at the top to select your connected ICON product as the “MIDI In and Out” device at the pull-down menu.

Step 4: Click the “Open File” button to browse the new firmware file.

Step 5: Click the “Upload” button to upload the firmware.

Warning:The firmware upload process “MUST” be completed and not be interrupted during the file uploading, otherwise the firmware may not be rewritten again.

Connections



Specifications

Connector:	USB connector (standard type)
Power supply:	12V/6A DC
Current consumption:	3A or less
Weight:	4.7kg (10.3lb)
Dimensions:	342(L) X 475(W) X 82(H) 13.5”(L) x 18.7”(W) x 3.2”(H)

Services

If your Qcon EX needs servicing, follow these instructions.

1. Ensure the problem is not related to operation error or external system devices.

2. Keep this owner's manual. We don't need it to repair the unit.

3. Pack the unit in its original packaging including end card and box. This is very important. If you have lost the packaging, please make sure you have packed the unit properly. ICON is not responsible for any damage that occurs due to non-factory packing.

4. Ship to the ICON tech support center or the local return authorization.

   U.S. OFFICE:
   ICON Digital Corporation
   8001 Terrace Ave., Suite 201
   Middleton, WI, 53562
   USA

   ASIA OFFICE:
   ICON (Asia) Corp.
   Unit 807-810, 8/F., Sunley Centre,
   No. 9 Wing Yin Street, Kwai Chung, NT.,
   Hong Kong.

5. For additional update information please visit our website at:
   www.icon-global.com

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